NFPA 79 for industrial machinery

SAB VFD

# VFD XLPE TR D

**Variable frequency drive - double shielded VFD cable with drain wire and XLPE insulation, Type TC-ER-JP**

600V FT4, CSA AWM I/II A/B 90C 1000V FT4 RoHS CE

Marking for VFD XLPE TR D 35681404D:
SAB NORTH AMERICA VFD XLPE TR D P/N 35681404D (UL) Type TC-ER-JP 14AWG/3C RHW-2 CDRS + GNDG CDR 90C Dry/Wet 600V, Oil Res I & II, Sunlight Resistant, Direct Burial, (UL) WTTC 1000V, (UL) Flexible Motor Supply Cable, c(UL) CIC-TC XLPE 600V FT4, CSA AWM I/II A/B 90C 1000V FT4 RoHS CE

## Construction:

| | |
|---|---|
| **Conductor:** | tinned copper strands class K |
| **Insulation:** | special formulated crosslinked PE, ground wire PVC |
| **Color code:** | blackish gray conductors with consecutive white numbers and green/yellow ground |
| **Stranding:** | in layers |
| **Shielding:** | double shield, AMA foil and tinned copper braiding and drain wire |
| **Jacket material:** | special sunlight and oil resistant copolymer |
| **Jacket color:** | black (RAL 9005) |

## Outstanding features:

- **interconnection of variable frequency drive control device to variable frequency motors**
- **UL 90°C wet**
- **WTTC: UL subject 2277**
- **TC-ER: UL standard 1277**
- **UL flexible motor supply cable 1000 V**
- **crosslinked conductors, better for longer installations**
- **Oil Res I & II**
- **double shielded (100% shielded)**
- **drain wire included**
- **UL TC-ER-JP (joist pull)***
- **Class 1 Div 2 per NEC Article 501.4 (B)**

## Technical data:

| | |
|---|---|
| **Voltage:** | **(UL) / c(UL):** 600 V<br>**CSA-AWM:** 1000 V<br>**(UL) WTTC:** 1000 V |
| **Testing voltage:** | 3000 V |
| **Min. bending radius:** | 12 x O.D. |
| **Temperature range:** | **(UL) / c(UL) / CSA-AWM:** up to +90°C |
| *static:* | -40/105°C |
| **Burning characteristics:** | (UL) / c(UL) FT4, c(UL) / CSA-AWM FT1, FT2 |
| **Oil resistance I & II:** | yes |
| **Sunlight resistance:** | yes |
| **Exposed runs:** | yes |
| **Cold bend test:** | -40°C |
| **Direct burial:** | yes |
| **Approvals:** | UL TC-ER-JP, UL WTTC, c(UL) CIC-TC, CSA AWM, CE, RoHS |
| **Absence of harmful substances:** | acc. to RoHS directive of the European Union see page O/30 |

| item no. | AWG/c | drain wire AWG | nominal outer-ø inch 10% | nominal outer-ø mm 10% | cable weight ≈lbs/mft |
|---|---|---|---|---|---|
| ▶ 35681604D | 16/4c | 16 | 0.493 | 12.5 | 144 |
| ▶ 35681404D | 14/4c | 14 | 0.522 | 13.3 | 180 |
| ▶ 35681204D | 12/4c | 12 | 0.592 | 15.0 | 237 |
| ▶ 35681004D | 10/4c | 10 | 0.680 | 17.3 | 327 |
| ▶ 35680804D | 8/4c | 4x14 | 0.886 | 22.5 | 620 |
| ▶ 35680604D | 6/4c | 4x12 | 0.974 | 24.7 | 805 |
| ▶ 35680404D | 4/4c | 4x10 | 1.090 | 27.7 | 1150 |
| ▶ 35680204D | 2/4c | 4x8 | 1.247 | 31.7 | 1600 |

Other dimensions and colors are possible on request.

* UL TC-ER-JP (joist pull) added Sept. 1, 2021

- **Temperature resistant down to -40°C**
- **Heavy duty application**



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